## How much can watching hockey stress your heart?

Complete the gaps with missing phrases from below. You will not need one phrase.

- A) adverse cardiovascular events
- B) on healthy spectators
- C) by a pair of exceptionally motivated and curious secondary school students at Royal West Academy (Montreal)
- D) can have a substantial effect on the cardiovascular system
- E) with moderate and vigorous physical stress, respectively
- F) medical attention promptly if symptoms develop
- G) a method of calculating how invested a person is in the team
- H) experienced with viewing high-stakes or high-intensity portions of the game

## Spectators experienced significantly elevated heart rates, equivalent to rates with vigorous exercise, while watching hockey games live or on TV, according to a new study

Sporting events often leave people on the edge of their seats, but what does all that excitement do to their hearts? A new study suggests that both the thrill of victory and the agony of defeat (1) ..... Investigators took the pulse of fans during a hockey game and found that on average, their heart rate increased by 75% when watching on TV, and by a whopping 110% (more than doubled, equivalent to the cardiac stress with vigorous exercise) when watching in person. Their findings, along with an accompanying editorial, are published in the *Canadian Journal of Cardiology*.

While it would be easy to assume the most heart pounding moments of a game come right at the end, researchers found that peak heart rates occurred most frequently during any scoring opportunity -- for or against -- and during overtime. "Our analysis of elements of the hockey game associated with peak heart rates supports the notion that it is not the outcome of the game that primarily determines the intensity of the emotional stress response, but rather the excitement (5) ......, " explained Dr. Khairy.

This study was designed and conducted (7) .............."I sincerely congratulate Leia Khairy and Roxana Barin for undertaking this novel and important project at such a young age," concluded Dr. Khairy. "They have scientifically demonstrated that it is indeed exciting to watch the Montreal Canadiens! Their research raises public awareness about the potential role of emotional sports-related stressors in triggering cardiac events, and opens up avenues for future research into mitigating such risks."

(https://www.sciencedaily.com/releases/2017/10/171005102717.htm)